

Application No. 10/083,085

Art Unit : 3681

Amendments to the claims

Claims 1-4 (Currently amended)

Claim 5 (Canceled)

Claim 6 (Added)

Claim # 1

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A hydro mechanical automatic transmission for automobiles and motorcycles having a source of moving force having an engine and driving wheels.

Comprising:

- a' a)
- a) an input shaft shifted in a permanent way to the engine for transmitting the torque to the transmission converting devices.
 - a) ~~b) a permanent connected complementary hydraulic means~~ a hydraulic device also connected in a permanent way to said input shaft and to the mechanical device for hydraulically converting and transmitting torque from the engine source of moving force to the driving wheels.
 - b) ~~A permanent connected complementary mechanical power converter device~~ connected in permanent way to said input shaft for mechanically converting and transmitting torque from the engine source of moving force to the driving wheels.
 - c) ~~d) a~~ An optional shifting device as driving selector mean.
 - d) A linking device for keeping a permanent connection between the mechanical device and the hydraulic device.
 - e) A shifting device as a driving selector mean.
 - f) A hydraulic driving device.

Claim # 2

A hydro mechanical automatic transmission for automobiles and motorcycles as set forth in Claim # 1, in which ~~the complementary mechanical power converter device~~ the mechanical device.

Comprises:

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- a) a single planetary gear set.
 - b) a free wheel associated to a planetary ring gear and to a drum.
 - c) a brake device associated to a drum and to a free wheel

Claim # 3

A hydro mechanical automatic transmission for automobiles and motorcycles as set forth in Claim # 1, in which the hydraulic device ~~the complementary hydraulic means~~ also comprises:

- a) an output shaft for hydraulically transmitting the torque from the engine to the shifting device.
- a) b) a brake device for momentary partially stopping said hydraulic device ~~means~~, only for shifting purposes.

Claim # 4

A hydro mechanical automatic transmission for automobiles as set forth in Claim #1 having an engine a source of moving force and driving wheels in which a shifting device as a selector mean comprises:

- a) a planetary bevel gear set
- b) a striated planetary body
- c) a sliding shifting coupling
- d) a yoke associated to a sliding shifting coupling
- e) a locking device lever intended for shifting the reverse position

Claim # 5 (Canceled)

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Claim # 6 (Added)

A hydro mechanical automatic transmission for automobiles as set forth en Claim # 1, in which the hydraulic driving device comprises:

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- a) a booster driven by means of the vehicle's brake system
 - b) a by-pass hydraulic valve associated with the vehicle's brake system and the accelerator pedal.
 - c) a hydraulic pressure regulation valve
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Amendment to drawing figures:

Fig. # 2 (canceled)